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**Policy**  
**Science Advisory Council for Exposure**

**Policy Number:** 003.1

**Regarding:** Agricultural Transfer Coefficients

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**Index terms:** Transfer coefficients; TC; reentry; dermal exposure; post application exposure assessment

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**ISSUE:**

This policy presents interim transfer coefficients (TC) for agricultural or commercial activities for use in post application exposure assessments and describes the general methodology used in their development.

**BACKGROUND:**

Conceptually, a transfer coefficient may be thought of the amount of treated foliage that a worker contacts while performing a specific activity in a given period (usually expressed in units of cm<sup>2</sup> per hour). Transfer coefficients are specific to a given crop (and crop stage) and activity combination (e.g., hand harvesting apples, scouting late season cotton) and reflect standard agricultural work clothing worn by adult workers. This clothing typically includes shoes, socks, long-legged pants, and long-sleeved shirts. HED Exposure SAC Policy 10 should be referenced regarding personal protective equipment (PPE) use by post-application workers.

Transfer coefficients are empirically determined by comparing a worker's dermal exposure during a set period of time to the measured dislodgeable residues on the foliage. Mathematically, this is expressed as follows:

$$\text{TC for a given crop / activity} \left( \frac{\text{sq. cm}}{\text{hour}} \right) = \frac{\text{Dermal Exposure} \left( \frac{\text{mg}}{\text{day}} \right)}{\text{Time spent doing activity} \left( \frac{\text{hours}}{\text{day}} \right) * \text{Dislodgeable Foliar Residue} \left( \frac{\text{mg}}{\text{sq. cm}} \right)}$$

Because of the great diversity of agriculture in the United States, it is impossible to conduct empirical transfer coefficient studies for all possible crop/crop growth stage/activity combinations. The Agency has therefore adopted a method of clustering crops, crop growth stages, and post-application activities into groups that are expected to result in comparable exposure (Table 1). Empirically derived transfer coefficients have then been applied to activities occurring in the defined crop groups.

These groups (Table 1) are predominately based on the growth form and architecture of the crop and the general methods used in the production of individual crops. For example, the fruit trees cultivated in the United States have been divided into two groups (deciduous vs. evergreen). It is important to note that these groups are distinct from the crop groups used for tolerance-setting purposes. The U.S. EPA crop definition scheme of food groups as they relate to tolerances would place the two fruit tree groups described above into at least three defined crop-groupings (citrus, pome, and stone fruit) and several undefined groups of tropical and subtropical fruit trees (e.g., avocado, dates, figs, mango).

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Table 1. Transfer Coefficient Groups and Typical Crops.

Transfer Coefficient Groups	Typical Crops
Berry, low	Blueberries (lowbush), cranberries, strawberries
Bunch / bundle	Bananas, hops, tobacco
Field / row crops, low / medium	Alfalfa, barley, beans (string and dry), rape (canola), chick peas, cotton, flax, forage plants, mint, peanuts, peas (green and dry), rice, safflower, soybeans, sugar beets, wheat (spring and winter)
Field / row crops, tall	Corn (all types), sorghum, sunflowers
Flowers, cut	Floriculture crops
Sugarcane	Sugarcane
Trees, fruit, deciduous	Apples, apricots, cherry, figs, nectarines, peaches, pears, pomegranates, plums, prunes
Trees, fruit, evergreen	Avocados, Christmas trees, dates, grapefruit, lemons, mangos, oranges, papaya
Tree, "nut"	Almonds, hazelnuts, macadamia nuts, olives, pecans, pistachios, walnuts
Turf / sod	Golf courses, sod
Unassigned	Forestry, greenhouse vegetables, nursery crops
Vegetable, "root"	Beets (table), carrots, onions (dry and green), potatoes, sweet potatoes, turnips
Vegetable, cucurbit	Cantaloupe, cucumbers, squash (summer and winter), watermelon, gourds, pumpkin, zucchini
Vegetable, fruiting	Eggplant, peppers (bell and chili), tomatoes (fresh and processed), okra
Vegetable, head and stem Brassica	Broccoli, Brussel sprouts, cabbage, cauliflower
Vegetable, leafy	Celery, collards, greens (leafy), kale, lettuce, parsley, spinach, bok choy, mustard greens, Swiss chard, watercress, herbs (low and medium), Chinese cabbage (nappa)
Vegetable, stem / stalk	Artichoke, asparagus, pineapple
Vine / trellis	Blackberries, blueberries (highbush), grapes (juice, table, raisin, wine), kiwi fruit, raspberries.

Some common agricultural activities are not covered by this transfer coefficient methodology and are identified as "out of scope" in Table 2. These are activities that involve contact with non-foliar surfaces (e.g., branches, stems, roots, tubers). Examples of these activities are transplanting (all crops), hand pruning dormant deciduous trees, and hand harvesting potatoes. This should not be interpreted to mean that there is no potential exposure from these activities but rather that this methodology is not appropriate to evaluate worker exposure. Guidance is given below on how the exposure assessor should treat these types of activities.

Other activities are considered to be of "special concern." Two groups are identified. The first are activities identified in surveys as being mechanically harvested (indicating "no-contact" with treated foliage), yet based on first-hand knowledge and experience of OPP's staff, it is known that these activities involve substantial worker contact with treated surfaces. HED Exposure SAC Policy 11: *Mechanized Agricultural Practices and Post-application Exposure Assessments* should be referenced for a more detailed explanation. These crops include alfalfa, cotton, forage plants, green onions, squash, peppers, tomatoes for processing, Brussel sprouts, spinach, asparagus, and hops. The second group of "special concern" activities are those that are extremely dusty creating the potential for substantial inhalation exposure. These activities include the sweeping of nuts (all tree nut crops except pistachios and olives) into windrows during harvesting. Guidance is given below on how the exposure assessor should treat these types of activities.

The following methodology was used in developing the transfer coefficient groups and assigning values to the cultural activities.

- The Agricultural Reentry Task Force (ARTF) Scoping Survey was used as a starting point to identify crops and activities occurring during the production of the crop. Additional crops and worker activities were added based on first hand knowledge of crop experts in the Office of Pesticide Programs.
- Crops were assigned to groups based on general growth form and overall cultural practices (e.g., field or row crops of low to medium height). An exception is the “bunch / bundle” group that was defined based on the handling of the harvested crop.
- The relative exposure potential for each activity within each group was qualitatively assessed. A three level system (usually as “high,” “medium,” and “low”) was typically used.
- Numeric transfer coefficients were assigned to each relative exposure potential class. These values are based on data submitted to the Agency or are from published literature studies. Usually, a “central” value from the selected study was used. However, to account for some uncertainty inherent in translating data between crops, activities, and groups, higher transfer coefficient values were sometime used.

The information in this policy should be considered interim. It is the intention of HED’s Science Advisory Council for Exposure that this policy will be periodically updated to incorporate additional information about agricultural practices in crops and new data on transfer coefficients. Much of this information will originate from exposure studies currently being conducted by the ARTF, from the further analysis of studies already submitted to the Agency, and from the studies in the published scientific literature.

The HED Science Advisory Council for Exposure is aware that the following studies are being conducted currently by the ARTF: blackberry harvesting, olive pruning, orange harvesting, sod harvesting, potato irrigation, tomato tying, cabbage harvesting, and greenhouse pruning.

#### **POLICY:**

Exposure assessors should use the data in this policy in the following manner:

- Identify appropriate transfer coefficient group (use Table 1 as an index) and crop in Table 2. If the crop being assessed is not listed in Table 2, refer to *Food and Feed Crops of the United States* (Markle, Baron and Schneider, 1998) or check with OPP crop experts to assign the crop to a transfer coefficient group.
- Consider the timing of the application of the pesticide relative to the crop growth stage (foliage development), the dissipation of the pesticide and its metabolites of concern, and the cultural activities typically occurring in each crop being considered.
- Additionally, exposure assessors should consider carefully activities that have “1--5” survey responses and verify with OPP crop experts that these activities actually occur in the crop being considered and are not an error in the survey. The verification of the occurrence of these activities in a crop is especially critical if the activities (and the resulting transfer coefficients) are being used to set a restricted entry interval.
- If “out of scope” or “special concern” activities are identified as occurring in the crop, then the exposure assessor should consider carefully the timing of the application of the pesticide, the dissipation of the pesticide and its metabolites of concern, and the timing of the cultural activity relative to the pesticide application. In cases where it is likely that there is a potential for significant exposure potential, the exposure assessor should request additional data (ranging from confirmatory use data to crop/activity specific exposure studies).
- Select an appropriate activity (usually the activity with the highest transfer coefficient) for the crop for use in a “tier 1” post-application exposure and risk assessment. The value for this activity typically should be used to calculate MOEs for each day after application until the target MOE is reached. Assessments for other critical activities may be calculated to give the risk manager information relating to potential exemptions to the restricted entry interval.

- When assessing crop/activities which match exactly with crop/activity transfer coefficient studies, the central value from the study should be used instead of the transfer coefficient assigned in this policy.

Table 2. Transfer Coefficient Groups, Included Crops, Activities, and Assigned Transfer Coefficients.

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments - Reference	ARTE Survey
Berry, low	Blueberries, Lowbush	Low	Full	Harvest, Hand	High	1500	High end value from MRID 430130 -- hand harvesting strawberries (range 400 to 1800)	6--14
Berry, low	Blueberries, Lowbush	Low	Full	Pruning, Hand	High	1500	High end value from MRID 430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Blueberries, Lowbush	Low	Full	Scouting	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	6--14
Berry, low	Blueberries, Lowbush	Low	Full	Weeding, Hand	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	6--14
Berry, low	Blueberries, Lowbush	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Berry, low	Blueberries, Lowbush	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14
Berry, low	Blueberries, Lowbush	Low	Min	Irrigation	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Blueberries, Lowbush	Low	Min	Pruning, Hand	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Blueberries, Lowbush	Low	Min	Scouting	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Blueberries, Lowbush	Low	Min	Thinning	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Blueberries, Lowbush	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Berry, low	Cranberries	Low	Full	Harvest, Hand (raking)	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Cranberries	Low	Full	Pruning, Hand (shears)	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	6--14
Berry, low	Cranberries	Low	Full	Scouting	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	15--24
Berry, low	Cranberries	Low	Full	Thinning	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Cranberries	Low	Full	Weeding, Hand	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	15--24
Berry, low	Cranberries	Low	Full	Ditching	None	0	No contact with treated foliage.	1--5
Berry, low	Cranberries	Low	Full	Frost Control	None	0	No contact with treated foliage.	1--5
Berry, low	Cranberries	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	15--24
Berry, low	Cranberries	Low	Full	Irrigation, Flood	None	0	No contact with treated foliage.	6--14
Berry, low	Cranberries	Low	Full	Sanding	None	0	No contact with treated foliage.	1--5
Berry, low	Cranberries	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Berry, low	Cranberries	Low	Min	Pruning, Hand	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Cranberries	Low	Min	Scouting	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Cranberries	Low	Min	Thinning	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Berry, low	Cranberries	Low	Min	Weeding, Hand	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1800
Berry, low	Cranberries	Low	Min	Irrigation, Flood	None	0	No contact with treated foliage.	1--5
Berry, low	Cranberries	Low	Min	Transplanting	Out of scope			1--5
Berry, low	Strawberries	Low	Full	Harvest, Hand	High	1500	See policy for guidance. High end value from MRID 430130 -- hand harvesting strawberries (range 400 to 1800)	15--24
Berry, low	Strawberries	Low	Full	Pinching	High	1500	High end value from MRID 430130 -- hand harvesting strawberries (range 400 to 1800)	25+
Berry, low	Strawberries	Low	Full	Pruning, Hand (pinching)	High	1500	High end value from MRID 430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Strawberries	Low	Full	Training	High	1500	High end value from MRID 430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Strawberries	Low	Full	Irrigation	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	6--14
Berry, low	Strawberries	Low	Full	Mulching	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Strawberries	Low	Full	Scouting	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	25+
Berry, low	Strawberries	Low	Full	Weeding, Hand	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	25+
Berry, low	Strawberries	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Berry, low	Strawberries	Low	Full	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Berry, low	Strawberries	Low	Min	Irrigation	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Strawberries	Low	Min	Pruning, Hand	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Strawberries	Low	Min	Scouting	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	1--5
Berry, low	Strawberries	Low	Min	Weeding, Hand	Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	6--14
Berry, low	Strawberries	Low	Min		Low	400	Low end value from MRID430130 -- hand harvesting strawberries (range 400 to 1800)	6--14
Berry, low	Strawberries	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Bunch / bundle	Bannanas					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Bunch / bundle	Hops	High	Full	Irrigation	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Bunch / bundle	Hops	High	Full	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Bunch / bundle	Hops	High	Full	Harvest, Hand	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	1--5
Bunch / bundle	Hops	High	Full	Harvest, Mech	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	15--24
Bunch / bundle	Hops	High	Full	Stripping	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	1--5
Bunch / bundle	Hops	High	Full	Training	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	1--5
Bunch / bundle	Hops	High	Full	Scouting	Medium	1300	Low end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	1--5
Bunch / bundle	Hops	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14
Bunch / bundle	Hops	High	Full					1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARF Survey
Bunch / bundle	Hops	High	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Bunch / bundle	Hops	High	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Bunch / bundle	Hops	High	Min	Thinning	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	1--5
Bunch / bundle	Hops	High	Min	Thinning	Need more details	Not yet assigned	Not yet assigned	1--5
Bunch / bundle	Hops	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Bunch / bundle	Tobacco	High	Full	Harvest, Hand	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	6--14
Bunch / bundle	Tobacco	High	Full	Pruning, Hand	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	25+
Bunch / bundle	Tobacco	High	Full	Stripping	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	6--14
Bunch / bundle	Tobacco	High	Full	Thinning	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	1--5
Bunch / bundle	Tobacco	High	Full	Topping	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	1--5
Bunch / bundle	Tobacco	High	Full	Weeding, Hand	High	2000	High end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	25+
Bunch / bundle	Tobacco	High	Full	Irrigation	Medium	1300	Low end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	6--14
Bunch / bundle	Tobacco	High	Full	Scouting	Medium	1300	Low end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	1--5
Bunch / bundle	Tobacco	Low	Full	Scouting	Medium	1300	Low end value from ARF024 -- hand-harvesting tobacco (range 1346 to 2308)	25+
Bunch / bundle	Tobacco	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Bunch / bundle	Tobacco	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Bunch / bundle	Tobacco	High	Full	Harvest, Mech	Need more details	Not yet assigned	No contact with treated foliage.	1--5
Bunch / bundle	Tobacco	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Bunch / bundle	Tobacco	Low	Min	Thinning	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Bunch / bundle	Tobacco	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Bunch / bundle	Tobacco	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Bunch / bundle	Tobacco	Low	Min	Reset	Need more details	Not yet assigned	Not yet assigned	1--5
Bunch / bundle	Tobacco	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Field / row crop, low / medium	Alfalfa	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Field / row crop, low / medium	Alfalfa	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Field / row crop, low / medium	Alfalfa	Low	Full	Harvest, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Field / row crop, low / medium	Alfalfa	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	6--14
Field / row crop, low / medium	Alfalfa	Low	Min	Irrigation	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Alfalfa	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Alfalfa	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Barley	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24



Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned IC	Comments / Reference	ARF Survey
Field / row crop, low / medium	Barley	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, low / medium	Barley	Low	Full	Swathing, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Barley	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, low / medium	Beans, String	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Field / row crop, low / medium	Beans, String	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Field / row crop, low / medium	Beans, String	Low	Full	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Beans, String	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Field / row crop, low / medium	Beans, String	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, low / medium	Beans, String	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Beans, String	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, low / medium	Beans, String	Low	Min	Thinning	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Beans, String	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Field / row crop, low / medium	Beans/Peas, Dry	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Field / row crop, low / medium	Beans/Peas, Dry	Low	Full	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	15--24
Field / row crop, low / medium	Beans/Peas, Dry	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Field / row crop, low / medium	Beans/Peas, Dry	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	25+
Field / row crop, low / medium	Beans/Peas, Dry	Low	Full	Swathing, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Beans/Peas, Dry	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, low / medium	Beans/Peas, Dry	Low	Min	Irrigation	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Beans/Peas, Dry	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	25+
Field / row crop, low / medium	Beans/Peas, Dry	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Beans/Peas, Dry	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Beans/Peas, Dry	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Field / row crop, low / medium	Canola	High	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Field / row crop, low / medium	Canola	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Field / row crop, low / medium	Canola	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Canola	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5



Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Field / row crop, low / medium	Chick Peas					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Field / row crop, low / medium	Cotton	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Field / row crop, low / medium	Cotton	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Field / row crop, low / medium	Cotton	Low	Full	Weeding, Hand	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Field / row crop, low / medium	Cotton	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Field / row crop, low / medium	Cotton	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Cotton	Low	Min	Irrigation	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Cotton	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, low / medium	Cotton	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined). Defoliants may be special case because of timing of application.	6--14
Field / row crop, low / medium	Cotton	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Cotton	Low	Min	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance. Defoliants may be special case because of timing of application.	15--24
Field / row crop, low / medium	Flax	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Field / row crop, low / medium	Flax	Low	Full	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Field / row crop, low / medium	Flax	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Forage Plants	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Field / row crop, low / medium	Forage Plants	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Field / row crop, low / medium	Forage Plants	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Forage Plants	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Forage Plants	Low	Full	Harvest, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Field / row crop, low / medium	Forage Plants	Low	Full	Pruning, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Field / row crop, low / medium	Forage Plants	Low	Full	Weeding, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Field / row crop, low / medium	Forage Plants	High	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Field / row crop, low / medium	Forage Plants	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	6--14
Field / row crop, low / medium	Forage Plants	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Forage Plants	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Field / row crop, low / medium	Mint	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Field / row crop, low / medium	Mint	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Field / row crop, low / medium	Mint	Low	Full	Weeding, Hand	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Field / row crop, low / medium	Mint	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, low / medium	Mint	Low	Min	Irrigation	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Mint	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARF Survey
Field / row crop, low / medium	Mint	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6-14
Field / row crop, low / medium	Mint	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6-14
Field / row crop, low / medium	Peanuts	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6-14
Field / row crop, low / medium	Peanuts	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15-24
Field / row crop, low / medium	Peanuts	Low	Full	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1-5
Field / row crop, low / medium	Peanuts	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	1-5
Field / row crop, low / medium	Peanuts	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1-5
Field / row crop, low / medium	Peanuts	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1-5
Field / row crop, low / medium	Peas, Green	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1-5
Field / row crop, low / medium	Peas, Green	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Field / row crop, low / medium	Peas, Green	Low	Full	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1-5
Field / row crop, low / medium	Peas, Green	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1-5
Field / row crop, low / medium	Peas, Green	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	6-14
Field / row crop, low / medium	Peas, Green	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6-14
Field / row crop, low / medium	Peas, Green	Low	Min	Thinning	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1-5
Field / row crop, low / medium	Peas, Green	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1-5
Field / row crop, low / medium	Rice	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15-24
Field / row crop, low / medium	Rice	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	6-14
Field / row crop, low / medium	Rice	Low	Full	Irrigation, Flood	None	0	No contact with treated foliage.	15-24
Field / row crop, low / medium	Rice	Low	Full	Harvest, Hand	Need more details	Not yet assigned	No contact with treated foliage.	1-5
Field / row crop, low / medium	Rice	Low	Full	Weeding, Hand	Need more details	Not yet assigned	Not yet assigned	1-5
Field / row crop, low / medium	Rice	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6-14
Field / row crop, low / medium	Rice	Low	Min	Irrigation, Flood	None	0	No contact with treated foliage.	1-5
Field / row crop, low / medium	Safflower	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1-5
Field / row crop, low / medium	Safflower	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1-5
Field / row crop, low / medium	Safflower	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	1-5
Field / row crop, low / medium	Safflower	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1-5
Field / row crop, low / medium	Safflower	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1-5
Field / row crop, low / medium	Safflower	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1-5
Field / row crop, low / medium	Soybeans	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6-14

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned FC	Comments / Reference	ARTIF Survey
Field / row crop, low / medium	Soybeans	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Field / row crop, low / medium	Soybeans	Low	Full	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Soybeans	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, low / medium	Soybeans	Low	Min	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, low / medium	Sugar Beets	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Field / row crop, low / medium	Sugar Beets	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Field / row crop, low / medium	Sugar Beets	Low	Full	Thinning	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Sugar Beets	Low	Full	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	15--24
Field / row crop, low / medium	Sugar Beets	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	25+
Field / row crop, low / medium	Sugar Beets	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, low / medium	Sugar Beets	Low	Full	Harvest, Hand	Need more details	Not yet assigned	No contact with treated foliage.	1--5
Field / row crop, low / medium	Sugar Beets	Low	Min	Irrigation	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Sugar Beets	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, low / medium	Sugar Beets	Low	Min	Thinning	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, low / medium	Sugar Beets	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, low / medium	Sugar Beets	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Wheat, Spring	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Field / row crop, low / medium	Wheat, Spring	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	25+
Field / row crop, low / medium	Wheat, Spring	Low	Full	Swathing, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Wheat, Spring	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, low / medium	Wheat, Winter	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Field / row crop, low / medium	Wheat, Winter	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Field / row crop, low / medium	Wheat, Winter	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, low / medium	Wheat, Winter	Low	Full	Weed Wicking	None	0	No contact with treated foliage.	1--5
Field / row crop, low / medium	Wheat, Winter	Low	Full	Weeding, Hand	Need more details	Not yet assigned	No contact with treated foliage.	1--5
Field / row crop, low / medium	Wheat, Winter	Low	Min	Irrigation	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, low / medium	Wheat, Winter	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, tall	Corn, Continuous	High	Full	Irrigation	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	1--5
Field / row crop, tall	Corn, Continuous	High	Full	Scouting	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	15--24

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARF Survey
Field / row crop, tall	Corn, Continuous		Full	Detasseling	High	17000	Central value from ARF010 -- hand harvesting sweet corn (range 6748 to 25254)	
Field / row crop, tall	Corn, Continuous	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, tall	Corn, Continuous	Low	Min	Scouting	Medium	400	Low end value from ARF009 -- scouting sweet corn (range 418 to 1980)	1--5
Field / row crop, tall	Corn, First Yr	High	Full	Irrigation	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	1--5
Field / row crop, tall	Corn, First Yr	High	Full	Scouting	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	15--24
Field / row crop, tall	Corn, First Yr		Full	Detasseling	High	17000	Central value from ARF010 -- hand harvesting sweet corn (range 6748 to 25254)	
Field / row crop, tall	Corn, First Yr	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Corn, First Yr	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Corn, First Yr	High	Min	Scouting	Medium	400	Low end value from ARF009 -- scouting sweet corn (range 418 to 1980)	6--14
Field / row crop, tall	Corn, First Yr	Low	Min	Scouting	Medium	400	Low end value from ARF009 -- scouting sweet corn (range 418 to 1980)	1--5
Field / row crop, tall	Corn, First Yr	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Sorghum	High	Full	Irrigation	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	1--5
Field / row crop, tall	Sorghum	High	Full	Scouting	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	15--24
Field / row crop, tall	Sorghum	Low	Full	Scouting	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	6--14
Field / row crop, tall	Sorghum	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, tall	Sorghum	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Sorghum	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Sorghum	High	Full	Weeding, Hand	Need more details	Not yet assigned	No contact with treated foliage.	1--5
Field / row crop, tall	Sorghum	Low	Full	Weeding, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Field / row crop, tall	Sorghum	Low	Min	Scouting	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	6--14
Field / row crop, tall	Sorghum	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, tall	Sorghum	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Sunflowers	High	Full	Scouting	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	15--24
Field / row crop, tall	Sunflowers	Low	Min	Scouting	Medium	400	Low end value from ARF009 -- scouting sweet corn (range 418 to 1980)	6--14
Field / row crop, tall	Sunflowers	High	Min	Scouting	Medium	400	Low end value from ARF009 -- scouting sweet corn (range 418 to 1980)	1--5
Field / row crop, tall	Sweet Corn, Fr	High	Full	Irrigation	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	6--14
Field / row crop, tall	Sweet Corn, Fr	High	Full	Scouting	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	25+
Field / row crop, tall	Sweet Corn, Fr	Low	Full	Scouting	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	1--5
Field / row crop, tall	Sweet Corn, Fr	High	Full	Weeding, Hand	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	1--5
Field / row crop, tall	Sweet Corn, Fr		Full	Detasseling	High	17000	Central value from ARF010 -- hand harvesting sweet corn (range 6748 to 25254)	
Field / row crop, tall	Sweet Corn, Fr	High	Full	Harvest, Hand	High	17000	Central value from ARF010 -- hand harvesting sweet corn (range 6748 to 25254)	25+

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments/Reference	ARF Survey
	Fr						25254)	
Field / row crop, tall	Sweet Corn, Fr	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Sweet Corn, Fr	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Sweet Corn, Fr	Low	Min	Weeding, Hand	Low	100	Central value from MRID 426891 - hoeing in cotton and beans (range to be determined)	1--5
Field / row crop, tall	Sweet Corn, Fr	Low	Min	Scouting	Medium	400	Low end value from ARF009 -- scouting sweet corn (range 418 to 1980)	6--14
Field / row crop, tall	Sweet Corn, Fr	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Sweet Corn, Fr	High	Full	Irrigation	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	6--14
Field / row crop, tall	Sweet Corn, Pr	High	Full	Scouting	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	25+
Field / row crop, tall	Sweet Corn, Pr	High	Full	Weeding, Hand	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	1--5
Field / row crop, tall	Sweet Corn, Pr	High	Full	Harvest, Hand	High	17000	Central value from ARF010 -- hand harvesting sweet corn (range 6748 to 25254)	1--5
Field / row crop, tall	Sweet Corn, Pr	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Field / row crop, tall	Sweet Corn, Pr	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Field / row crop, tall	Sweet Corn, Pr	Low	Min	Scouting	Medium	400	Low end value from ARF009 -- scouting sweet corn (range 418 to 1980)	6--14
Field / row crop, tall	Sweet Corn, Pr	High	Min	Scouting	Medium	400	Low end value from ARF009 -- scouting sweet corn (range 418 to 1980)	1--5
Flowers, cut	Floricultr Crps	High	Full	Harvest, Hand	High	7000	Central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	6--14
Flowers, cut	Floricultr Crps	Low	Full	Harvest, Hand	High	7000	Central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	25+
Flowers, cut	Floricultr Crps	Low	Full	Pinching	High	7000	Central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricultr Crps	High	Full	Pruning, Hand	High	7000	Central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricultr Crps	Low	Full	Pruning, Hand	High	7000	Central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	15--24
Flowers, cut	Floricultr Crps	High	Full	Thinning	High	7000	Central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricultr Crps	Low	Full	Thinning (pinching)	High	7000	Central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	6--14
Flowers, cut	Floricultr Crps	Low	Full	Weeding, Hand	Low	2500	Low end value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	15--24
Flowers, cut	Floricultr Crps	High	Full	Weeding, Hand	Low	2500	Low end value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5



Transfer Coefficient/Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments/Reference	ARFF Survey
Flowers, cut	Floricult Crps	High	Full	Irrigation	Medium	4000	Low to central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricult Crps	Low	Full	Irrigation	Medium	4000	Low to central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricult Crps	High	Full	Scouting	Medium	4000	Low to central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricult Crps	Low	Full	Scouting	Medium	4000	Low to central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	25+
Flowers, cut	Floricult Crps	Low	Full	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Flowers, cut	Floricult Crps	Low	Min	Pruning, Hand	High	7000	Central value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricult Crps	Low	Min	Irrigation	Low	2500	Low end value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricult Crps	Low	Min	Scouting	Low	2500	Low end value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricult Crps	Low	Min	Thinning	Low	2500	Low end value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricult Crps	Low	Min	Weeding, Hand	Low	2500	Low end value from Brouwer et al 1992. Value adjusted from single to double sided leaves. (range 2400 to 13000)	1--5
Flowers, cut	Floricult Crps	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Flowers, cut	Floricult Crps	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	15--24
Sugarcane	Sugarcane	High	Full	Scouting	High	2000	High end value from ARF009 -- scouting sweet corn (range 418 to 1980)	15--24
Sugarcane	Sugarcane	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	1--5
Sugarcane	Sugarcane	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Sugarcane	Sugarcane	High	Full	Harvest, Hand	Special concern	Special concern	Note that foliage is burned prior to harvest.	1--5
Sugarcane	Sugarcane	High	Min	Scouting	Medium	1000	Central value from ARF009 -- scouting sweetcorn (range 418 to 1980)	1--5
Sugarcane	Sugarcane	High	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Sugarcane	Sugarcane	High	Min	Weeding, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Sugarcane	Sugarcane	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Tree, "fruit", deciduous	All fruit trees			Propping	Very low	100	From MRID 432976 -- propping peaches (Range to be determined)	
Tree, "fruit", deciduous	Apples	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	25+
Tree, "fruit", deciduous	Apples	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Apples	High	Full	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	25+
Tree, "fruit", deciduous	Apples	High	Full	Harvest, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	25+
Tree, "fruit", deciduous	Apples	High	Full	Propping	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Apples	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	15--24
Tree, "fruit", deciduous	Apples	High	Full	Training	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Apples	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned JG	Comments / Reference	ARF Survey
Tree, "fruit", deciduous	Apples	High	Full	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Tree, "fruit", deciduous	Apples	High	Min	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Apples	High	Min	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "fruit", deciduous	Apples	High	Min	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Apples	High	Min	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", deciduous	Apples	High	Min	Animal Control	Need more details	Not yet assigned	Not yet assigned	1--5
Tree, "fruit", deciduous	Apples	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	25+
Tree, "fruit", deciduous	Apples	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Tree, "fruit", deciduous	Apricots	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "fruit", deciduous	Apricots	High	Full	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	6--14
Tree, "fruit", deciduous	Apricots	High	Full	Harvest, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	15--24
Tree, "fruit", deciduous	Apricots	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Apricots	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", deciduous	Apricots	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", deciduous	Cherries	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "fruit", deciduous	Cherries	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	25+
Tree, "fruit", deciduous	Cherries	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Cherries	High	Full	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", deciduous	Cherries	High	Full	Harvest, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	25+
Tree, "fruit", deciduous	Cherries	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	6--14
Tree, "fruit", deciduous	Cherries	High	Full	Fertilizing	None	0	No contact with treated foliage.	1--5
Tree, "fruit", deciduous	Cherries	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Tree, "fruit", deciduous	Cherries	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	15--24
Tree, "fruit", deciduous	Cherries	High	Min	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Cherries	High	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", deciduous	Cherries	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	25+
Tree, "fruit", deciduous	Cherries	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	15--24
Tree, "fruit", deciduous	Figs	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Figs	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Figs	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Figs	High	Full	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", deciduous	Figs	High	Full	Harvest, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	6--14
Tree, "fruit", deciduous	Figs	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Figs	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", deciduous	Figs	High	Full	Harvest, Mech	Need more	Not yet assigned	Not yet assigned	1--5



Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments/Reference	ARFF Survey
Tree, "fruit", deciduous	Figs	High	Full	Pollination	details	Not yet assigned	Not yet assigned	1--5
Tree, "fruit", deciduous	Figs	High	Min	Weeding, Mech	Need more details	0	No contact with treated foliage.	1--5
Tree, "fruit", deciduous	Figs	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", deciduous	Figs	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", deciduous	Nectarines	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Nectarines	High	Full	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	6--14
Tree, "fruit", deciduous	Nectarines	High	Full	Harvest, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	15--24
Tree, "fruit", deciduous	Nectarines	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Nectarines	High	Full	Training	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Nectarines	High	Min	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Nectarines	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", deciduous	Nectarines	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", deciduous	Peaches	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Peaches	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Peaches	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	25+
Tree, "fruit", deciduous	Peaches	High	Full	Thinning	Very High	8000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Peaches	High	Full	Harvest, Hand	High	3000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	25+
Tree, "fruit", deciduous	Peaches	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	25+
Tree, "fruit", deciduous	Peaches	High	Full	Weeding, Mech	None	0	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	15--24
Tree, "fruit", deciduous	Peaches	High	Min	Thinning	Very High	8000	No contact with treated foliage.	1--5
Tree, "fruit", deciduous	Peaches	High	Min	Pruning, Hand	Out of scope	Out of scope	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", deciduous	Peaches	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Tree, "fruit", deciduous	Pears	High	Full	Irrigation	Low	1000	See policy for guidance.	6--14
Tree, "fruit", deciduous	Pears	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "fruit", deciduous	Pears	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	25+
Tree, "fruit", deciduous	Pears	High	Full	Thinning	Very High	8000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Pears	High	Full	Harvest, Hand	High	3000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	15--24
Tree, "fruit", deciduous	Pears	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	25+
Tree, "fruit", deciduous	Pears	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	25+
Tree, "fruit", deciduous	Pears	High	Full	Training	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Pears	High	Full	Tying	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Pears	High	Full	Weeding, Mech	None	0	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Pears	High	Min	Irrigation	Low	1000	No contact with treated foliage.	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned IC	Comments / Reference	ARTF Survey
Tree, "fruit", deciduous	Pears	High	Min	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Pears	High	Min	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Pears	High	Min	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", deciduous	Pears	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	25+
Tree, "fruit", deciduous	Pears	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Tree, "fruit", deciduous	Plums/Prunes	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Plums/Prunes	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Plums/Prunes	High	Full	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", deciduous	Plums/Prunes	High	Full	Harvest, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	6--14
Tree, "fruit", deciduous	Plums/Prunes	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Plums/Prunes	High	Full	Tying	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Plums/Prunes	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Tree, "fruit", deciduous	Plums/Prunes	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14
Tree, "fruit", deciduous	Plums/Prunes	High	Min	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Plums/Prunes	High	Min	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", deciduous	Plums/Prunes	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	6--14
Tree, "fruit", deciduous	Plums/Prunes	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", deciduous	Pomegranates	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Pomegranates	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", deciduous	Pomegranates	High	Full	Thinning	Very High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	6--14
Tree, "fruit", deciduous	Pomegranates	High	Full	Harvest, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", deciduous	Pomegranates	High	Full	Pruning, Hand	High	3000	Central value from MRID428300 -- hand harvesting peaches (range 1421 to 4393)	6--14
Tree, "fruit", deciduous	Pomegranates	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", deciduous	Pomegranates	High	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", deciduous	Pomegranates	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", deciduous	Pomegranates	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", evergreen	All fruit trees			Propping	Very low	100	From MRID 432976 -- propping peaches (Range to be determined)	
Tree, "fruit", evergreen	Avocados	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Avocados	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "fruit", evergreen	Avocados	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Avocados	High	Full	Harvest, Hand	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	15--24
Tree, "fruit", evergreen	Avocados	High	Full	Thinning	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Avocados	High	Full	Pruning, Hand	Medium	3000	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	6--14
Tree, "fruit", evergreen	Avocados	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", evergreen	Avocados	High	Min	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Avocados	High	Min	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Avocados	High	Min	Thinning	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Avocados	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Tree, "fruit", evergreen	Avocados	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Thinning	Medium	3000	Central end value from MRID 428300 -- hand harvesting peaches (range 1421 to 4393)	15-24
Tree, "fruit", evergreen	Christmas Trees	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6-14
Tree, "fruit", evergreen	Christmas Trees	Low	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	25+
Tree, "fruit", evergreen	Christmas Trees	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6-14
Tree, "fruit", evergreen	Christmas Trees	High	Full	Harvest, Hand	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	25+
Tree, "fruit", evergreen	Christmas Trees	High	Full	Staking	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Topping	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Training	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Pruning, Cones	Medium	3000	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Pruning, Hand	Medium	3000	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	25+
Tree, "fruit", evergreen	Christmas Trees	High	Full	Fertilizing	None	0	No contact with treated foliage.	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	6-14
Tree, "fruit", evergreen	Christmas Trees	High	Full	Baling	Need more details	Not yet assigned	Not yet assigned	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Grade/Tag	Need more details	Not yet assigned	Not yet assigned	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	25+
Tree, "fruit", evergreen	Christmas Trees	High	Full	Pruning, Mech	Need more details	Not yet assigned	Not yet assigned	1-5
Tree, "fruit", evergreen	Christmas Trees	High	Full	Pruning, Wreath	Need more details	Not yet assigned	Not yet assigned	1-5
Tree, "fruit", evergreen	Christmas Trees	Low	Min	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1-5
Tree, "fruit", evergreen	Christmas Trees	Low	Min	Thinning	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1-5
Tree, "fruit", evergreen	Christmas Trees	Low	Min	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6-14
Tree, "fruit", evergreen	Christmas Trees	Low	Min	Pruning, Hand	Medium	3000	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1-5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned JIC	Comments/Reference	ARTF Survey
Tree, "fruit", evergreen	Christmas Trees	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", evergreen	Christmas Trees	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Tree, "fruit", evergreen	Conifers		Full	Seed Cone Harvesting	Medium	3000	Activity added -- does not occur in ARTF Scoping Survey. Central end value from MRID 428300 -- hand harvesting peaches (range 1421 to 4393)	
Tree, "fruit", evergreen	Dates	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Dates	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Dates	High	Full	Bagging Fruit	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Dates	High	Full	Hand Labor, Msc	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Dates	High	Full	Harvest, Hand	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Dates	High	Full	Pollination	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	6--14
Tree, "fruit", evergreen	Dates	High	Full	Thinning	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Dates	High	Full	Tying	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	6--14
Tree, "fruit", evergreen	Dates	High	Full	Pruning, Hand	Medium	3000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Dates	High	Full	Weeding, Mech	None	0	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	6--14
Tree, "fruit", evergreen	Dates	High	Full	Dethrone Trees	Need more details	Not yet assigned	No contact with treated foliage.	1--5
Tree, "fruit", evergreen	Dates	High	Full	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Tree, "fruit", evergreen	Dates	High	Full	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", evergreen	Dates	High	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", evergreen	Grapefruit	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Grapefruit	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Grapefruit	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	15--24
Tree, "fruit", evergreen	Grapefruit	High	Full	Harvest, Hand	High	8000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Grapefruit	High	Full	Pruning, Hand	Medium	3000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	25+
Tree, "fruit", evergreen	Grapefruit	High	Full	Weeding, Mech	None	0	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	6--14
Tree, "fruit", evergreen	Grapefruit	High	Full	Baiting/Trapping	Need more details	Not yet assigned	No contact with treated foliage.	1--5
Tree, "fruit", evergreen	Grapefruit	High	Full	Chopping, Brsh	Need more details	Not yet assigned	Not yet assigned	1--5
Tree, "fruit", evergreen	Grapefruit	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", evergreen	Grapefruit	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Tree, "fruit", evergreen	Lemons	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Lemons	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Lemons	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "fruit", evergreen	Lemons	High	Full	Harvest, Hand	High	8000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Lemons	High	Full	Pruning, Hand	Medium	3000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	15--24
Tree, "fruit", evergreen	Lemons	High	Full	Weeding, Mech	None	0	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	6--14
Tree, "fruit", evergreen	Lemons	High	Min	Irrigation	Low	1000	No contact with treated foliage.	1--5
Tree, "fruit", evergreen	Lemons	High	Min	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Lemons	High	Min	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5



Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTP Survey
Tree, "fruit", evergreen	Lemons	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", evergreen	Mangos	High	Full	Harvest, Hand	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Mangos	High	Full	Thinning	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Mangos	High	Full	Pruning, Hand	Medium	3000	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "fruit", evergreen	Oranges	High	Full	Irrigation	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "fruit", evergreen	Oranges	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	15--24
Tree, "fruit", evergreen	Oranges	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Oranges	High	Full	Harvest, Hand	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	25+
Tree, "fruit", evergreen	Oranges	High	Full	Pruning, Hand	Medium	3000	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	15--24
Tree, "fruit", evergreen	Oranges	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", evergreen	Oranges	High	Min	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Oranges	High	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", evergreen	Oranges	High	Min	Pruning, Hand	Out of scope	Out of scope	No contact with treated foliage.	1--5
Tree, "fruit", evergreen	Oranges	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "fruit", evergreen	Papaya	High	Full	Irrigation	Low	1000	See policy for guidance.	15--24
Tree, "fruit", evergreen	Papaya	High	Full	Scouting	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Papaya	High	Full	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "fruit", evergreen	Papaya	High	Full	Harvest, Hand	High	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Papaya	High	Full	Thinning	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	6--14
Tree, "fruit", evergreen	Papaya	High	Full	Pruning, Hand	High	8000	Central value from MRID 424281 -- thinning apples (range 5806 to 9835)	1--5
Tree, "fruit", evergreen	Papaya	High	Full	Pruning, Hand	Medium	3000	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "fruit", evergreen	Papaya	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "fruit", evergreen	Papaya	High	Min	Thinning	Medium	3000	Central end value from MRID 428300 -- hand harvesting peaches (range 1421 to 4393)	1--5
Tree, "fruit", evergreen	Papaya	High	Min	Weeding, Hand	Low	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "fruit", evergreen	Papaya	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "nut"	Almonds	High	Full	Harvest, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Almonds	High	Full	Pruning, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Almonds	High	Full	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "nut"	Almonds	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "nut"	Almonds	High	Full	Harvest, Mech (sweep)	Special concern	Special concern	Significant worker exposure possible from activity (dust). Use TC=100 for shakers. See policy for guidance.	6--14
Tree, "nut"	Almonds	High	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Almonds	High	Min	Thinning	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Almonds	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	6--14
Tree, "nut"	Almonds	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "nut"	Hazelnuts	High	Full	Pruning, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Hazelnuts	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Hazelnuts	High	Full	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Hazelnuts	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "nut"	Hazelnuts	High	Full	Harvest, Mech (sweep)	Special concern	Special concern	Significant worker exposure possible from activity (dust). Use TC=100 for shakers. See policy for guidance.	6--14
Tree, "nut"	Hazelnuts	High	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTE Survey
Tree, "nut"	Hazelnuts	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "nut"	Hazelnuts	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "nut"	Macadamia Nuts	High	Full	Harvest, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	6--14
Tree, "nut"	Macadamia Nuts	High	Full	Pruning, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Macadamia Nuts	High	Full	Thinning	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Macadamia Nuts	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Macadamia Nuts	High	Full	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Macadamia Nuts	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "nut"	Macadamia Nuts	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "nut"	Olives	High	Full	Harvest, Hand (net)	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	6--14
Tree, "nut"	Olives	High	Full	Pruning, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	6--14
Tree, "nut"	Olives	High	Full	Thinning	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Olives	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Olives	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "nut"	Olives	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "nut"	Pecans	High	Full	Harvest, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	15--24
Tree, "nut"	Pecans	High	Full	Pruning, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	6--14
Tree, "nut"	Pecans	High	Full	Thinning	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Pecans	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Pecans	High	Full	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	15--24
Tree, "nut"	Pecans	High	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Pecans	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "nut"	Pecans	High	Full	Harvest, Mech (sweep)	Special concern	Special concern	Significant worker exposure possible from activity (dust). Use TC=100 for shakers. See policy for guidance.	6--14
Tree, "nut"	Pecans	High	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Pecans	High	Min	Thinning	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Pecans	High	Min	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Pecans	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "nut"	Pecans	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Tree, "nut"	Pistachios	High	Full	Pruning, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Pistachios	High	Full	Harvest, Hand (net)	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929). Use TC=100 for shakers.	1--5
Tree, "nut"	Pistachios	High	Full	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Tree, "nut"	Pistachios	High	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Pistachios	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Tree, "nut"	Pistachios	High	Full	Harvest, Mech (net)	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	6--14
Tree, "nut"	Pistachios	High	Min	Thinning	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Pistachios	High	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Pistachios	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	6--14
Tree, "nut"	Pistachios	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Tree, "nut"	Walnut, English	High	Full	Harvest, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Walnut, English	High	Full	Pruning, Hand	High	2500	Central value from MRID 430627 -- hand pruning citrus (range 1121 to 4929)	1--5
Tree, "nut"	Walnut, English	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Walnut, English	High	Full	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Walnut, English	High	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Tree, "nut"	Walnut, English	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "nut"	Walnut, English	High	Full	Harvest, Mech (sweep)	Special concern	Special concern	Significant worker exposure possible from activity (dust). Use TC=100 for shakers. See policy for guidance.	1--5
Tree, "nut"	Walnut, English	High	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Tree, "nut"	Walnut, English	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	6--14
Tree, "nut"	Walnut, English	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Turf / sod	Golf Course	Low	Full	Aerating	Mowing	500	Chlorthalonil mowing study (Non ARTF Study). Use 5% initial residues instead of 20% unless DFR data is available.	15--24
Turf / sod	Golf Course	Low	Full	Fertilizing	Mowing	500	Chlorthalonil mowing study (Non ARTF Study). Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Golf Course	Low	Full	Pruning, Hand	Mowing	500	Chlorthalonil mowing study (Non ARTF Study). Use 5% initial residues instead of 20% unless DFR data is available.	1--5
Turf / sod	Golf Course	Low	Full	Scouting	Mowing	500	Chlorthalonil mowing study (Non ARTF Study). Use 5% initial residues instead of 20% unless DFR data is available.	25+
Turf / sod	Golf Course	Low	Full	Weeding, Mech	Mowing	500	Chlorthalonil mowing study (Non ARTF Study). Use 5% initial residues instead of 20% unless DFR data is available.	15--24
Turf / sod	Golf Course	Low	Full	Irrigation	None	0	No contact with treated foliage.	6--14
Turf / sod	Golf Course	Low	Full	Transplanting	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	25+
Turf / sod	Golf Course	Low	Full	Weeding, Hand	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	25+
Turf / sod	Golf Course	Low	Min	Aerating	Mowing	500	Chlorthalonil mowing study (Non ARTF Study). Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Golf Course	Low	Min	Fertilizing	Mowing	500	Chlorthalonil mowing study (Non ARTF Study). Use 5% initial residues instead of 20% unless DFR data is available.	6--14



Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARIF Survey
Turf / sod	Golf Course	Low	Min	Irrigation	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	1--5
Turf / sod	Golf Course	Low	Min	Scouting	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Golf Course	Low	Min	Weeding, Mech	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Golf Course	Low	Min	Transplanting	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Golf Course	Low	Min	Weeding, Hand	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Golf Course	Seed	Seed	Seeding	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Sod	Low	Full	Pruning, Hand	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	1--5
Turf / sod	Sod	Low	Full	Scouting	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	25+
Turf / sod	Sod	Low	Full	Weeding, Mech	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Sod	Low	Full	Irrigation	None	0	No contact with treated foliage.	15--24
Turf / sod	Sod	Low	Full	Harvest, Hand	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	1--5
Turf / sod	Sod	Low	Full	Harvest, Mech	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	25+
Turf / sod	Sod	Low	Full	Transplanting	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Sod	Low	Full	Weeding, Hand	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	1--5
Turf / sod	Sod	Low	Min	Irrigation	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	1--5
Turf / sod	Sod	Low	Min	Scouting	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	1--5
Turf / sod	Sod	Low	Min	Weeding, Mech	Mowing	500	Chlorthalonil mowing study (Non ARIF Study). Use 5% initial residues instead of 20% unless DFR data is available.	1--5
Turf / sod	Sod	Low	Min	Harvest, Mech	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	6--14
Turf / sod	Sod	Low	Min	Transplanting	High	16500	Revised residential SOPs -- TC for Jazzercise. Use 5% initial residues instead of 20% unless DFR data is available.	1--5
Unassigned	Forestry	High	Full	Weeding, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Full	Chopping, Brsh	High	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Full	Harvest, Hand	Cannot assess	Not yet assigned	Not yet assigned	15--24
Unassigned	Forestry	High	Full	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Full	Pruning, Hand	Cannot assess	Not yet assigned	Not yet assigned	6--14
Unassigned	Forestry	High	Full	Scouting	Cannot assess	Not yet assigned	Not yet assigned	6--14

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	APRF Survey
Unassigned	Forestry	High	Full	Thinning	Cannot assess	Not yet assigned	Not yet assigned	6--14
Unassigned	Forestry	High	Full	Transporting	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Full	Weeding, Hand	Low	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Min	Weeding, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Min	Irrigation	Low	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Min	Pruning, Hand	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Min	Scouting	Low	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Min	Thinning	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	Low	Min	Thinning	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	High	Min	Weeding, Hand	Low	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	Low	Min	Weeding, Hand	Low	Not yet assigned	Not yet assigned	1--5
Unassigned	Forestry	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Unassigned	Grnhse, Veg	High	Full	Harvest, Hand	Need more details	Not yet assigned	Not yet assigned	25+
Unassigned	Grnhse, Veg	Low	Full	Harvest, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	High	Full	Pinching	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	High	Full	Pollination	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	High	Full	Pruning, Hand	Need more details	Not yet assigned	Not yet assigned	25+
Unassigned	Grnhse, Veg	Low	Full	Pruning, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	High	Full	Scouting	Need more details	Not yet assigned	Not yet assigned	25+
Unassigned	Grnhse, Veg	Low	Full	Scouting	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	High	Full	Thinning	Need more details	Not yet assigned	Not yet assigned	6--14
Unassigned	Grnhse, Veg	High	Full	Training	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	High	Full	Turning	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	High	Full	Tying	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	High	Full	Weeding, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	Low	Min	Propagating	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	Low	Min	Pruning, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	Low	Min	Scouting	Need more details	Not yet assigned	Not yet assigned	6--14

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ART Survey
Unassigned	Grnhse, Veg	Low	Min	Thinning	details	Not yet assigned		
Unassigned	Grnhse, Veg	Low	Min	Weeding, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Grnhse, Veg	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Unassigned	Nursery Crops	High	Full	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	15--24
Unassigned	Nursery Crops	Low	Full	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	High	Full	Weeding, Mech	Need more details	Not yet assigned	Not yet assigned	6--14
Unassigned	Nursery Crops	High	Full	Harvest, Hand	High	Not yet assigned	Not yet assigned	25+
Unassigned	Nursery Crops	Low	Full	Harvest, Hand	High	Not yet assigned	Not yet assigned	6--14
Unassigned	Nursery Crops	High	Full	Irrigation	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	Low	Full	Irrigation	Medium	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	High	Full	Pruning, Hand	Cannot assess	Not yet assigned	Not yet assigned	25+
Unassigned	Nursery Crops	Low	Full	Pruning, Hand	Cannot assess	Not yet assigned	Not yet assigned	15--24
Unassigned	Nursery Crops	High	Full	Scouting	Cannot assess	Not yet assigned	Not yet assigned	25+
Unassigned	Nursery Crops	Low	Full	Scouting	Cannot assess	Not yet assigned	Not yet assigned	15--24
Unassigned	Nursery Crops	High	Full	Thinning	Cannot assess	Not yet assigned	Not yet assigned	6--14
Unassigned	Nursery Crops	Low	Full	Thinning	Cannot assess	Not yet assigned	Not yet assigned	6--14
Unassigned	Nursery Crops	High	Full	Transporting	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	High	Full	Weeding, Hand	Cannot assess	Not yet assigned	Not yet assigned	15--24
Unassigned	Nursery Crops	Low	Full	Weeding, Hand	Cannot assess	Not yet assigned	Not yet assigned	15--24
Unassigned	Nursery Crops	Low	Full	Weeding, Mech	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	High	Full	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Unassigned	Nursery Crops	Low	Full	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Unassigned	Nursery Crops	High	Min	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	Low	Min	Harvest, Mech	Need more details	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	Low	Min	Fertilizing	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	Low	Min	Grafting	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	High	Min	Harvest, Hand	High	Not yet assigned	Not yet assigned	6--14
Unassigned	Nursery Crops	Low	Min	Harvest, Hand	High	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	Low	Min	Irrigation	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	Low	Min	Propagating	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	High	Min	Pruning, Hand	Cannot assess	Not yet assigned	Not yet assigned	6--14
Unassigned	Nursery Crops	Low	Min	Pruning, Hand	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	High	Min	Scouting	Cannot assess	Not yet assigned	Not yet assigned	6--14
Unassigned	Nursery Crops	Low	Min	Scouting	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	High	Min	Thinning	Cannot assess	Not yet assigned	Not yet assigned	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARF Survey
Unassigned	Nursery Crops	Low	Min	Thinning	Cannot assess	Not yet assigned	Not yet assigned	6--14
Unassigned	Nursery Crops	High	Min	Weeding, Hand	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	Low	Min	Weeding, Hand	Cannot assess	Not yet assigned	Not yet assigned	6--14
Unassigned	Nursery Crops	High	Min	Weeding, Mech	Cannot assess	Not yet assigned	Not yet assigned	1--5
Unassigned	Nursery Crops	High	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	15--24
Unassigned	Nursery Crops	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Vegetable, "root"	Beets, Table	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, "root"	Beets, Table	Low	Full	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Beets, Table	Low	Full	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	25+
Vegetable, "root"	Beets, Table	Low	Full	Thinning	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Beets, Table	Low	Full	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6--14
Vegetable, "root"	Beets, Table	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, "root"	Beets, Table	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, "root"	Beets, Table	Low	Min	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Beets, Table	Low	Min	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6--14
Vegetable, "root"	Beets, Table	Low	Min	Thinning	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Beets, Table	Low	Min	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6--14
Vegetable, "root"	Beets, Table	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	15--24
Vegetable, "root"	Carrots	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, "root"	Carrots	Low	Min	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6--14
Vegetable, "root"	Carrots	Low	Min	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6--14
Vegetable, "root"	Carrots	Low	Min	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Carrots	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, "root"	Onions, Dry	Low	Full	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	25+
Vegetable, "root"	Onions, Dry	Low	Full	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	25+
Vegetable, "root"	Onions, Dry	Low	Full	Thinning	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Onions, Dry	Low	Full	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	25+
Vegetable, "root"	Onions, Dry	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	15--24
Vegetable, "root"	Onions, Dry	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, "root"	Onions, Dry	Low	Full	Harvest, Hand	Out of scope	Out of scope	See policy for guidance.	25+
Vegetable, "root"	Onions, Dry	Low	Min	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6--14
Vegetable, "root"	Onions, Dry	Low	Min	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	15--24
Vegetable, "root"	Onions, Dry	Low	Min	Thinning	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Onions, Dry	Low	Min	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	25+
Vegetable, "root"	Onions, Dry	Low	Min	Harvest, Mech	None	0	No contact with treated foliage.	15--24
Vegetable, "root"	Onions, Dry	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, "root"	Onions, Dry	Low	Min	Weeding, Hand	Out of scope	Out of scope	See policy for guidance.	15--24
Vegetable, "root"	Onions, Dry	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, "root"	Onions, Dry	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	15--24



Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARFP Survey
Vegetable, "root"	Onions, Green	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	6-14
Vegetable, "root"	Onions, Green	Low	Full	Thinning	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1-5
Vegetable, "root"	Onions, Green	Low	Full	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1-5
Vegetable, "root"	Onions, Green	Low	Full	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6-14
Vegetable, "root"	Onions, Green	Low	Full	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6-14
Vegetable, "root"	Onions, Green	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1-5
Vegetable, "root"	Onions, Green	Low	Min	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1-5
Vegetable, "root"	Onions, Green	Low	Min	Pruning, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1-5
Vegetable, "root"	Onions, Green	Low	Min	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1-5
Vegetable, "root"	Onions, Green	Low	Min	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6-14
Vegetable, "root"	Onions, Green	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1-5
Vegetable, "root"	Potatoes	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, "root"	Potatoes	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, "root"	Potatoes	Low	Full	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1-5
Vegetable, "root"	Potatoes	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1-5
Vegetable, "root"	Potatoes	Low	Min	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6-14
Vegetable, "root"	Potatoes	Low	Min	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6-14
Vegetable, "root"	Potatoes	Low	Min	Harvest, Mech	None	0	No contact with treated foliage.	15-24
Vegetable, "root"	Potatoes	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1-5
Vegetable, "root"	Potatoes	Low	Min	Harvest, Hand	Out of scope	Out of scope	See policy for guidance.	1-5
Vegetable, "root"	Potatoes	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1-5
Vegetable, "root"	Sweet Potatoes	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15-24
Vegetable, "root"	Sweet Potatoes	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, "root"	Sweet Potatoes	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	15-24
Vegetable, "root"	Sweet Potatoes	Low	Full	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	25+
Vegetable, "root"	Sweet Potatoes	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	25+
Vegetable, "root"	Sweet Potatoes	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1-5
Vegetable, "root"	Sweet Potatoes	Low	Min	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1-5
Vegetable, "root"	Sweet Potatoes	Low	Min	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6-14
Vegetable, "root"	Sweet Potatoes	Low	Min	Thinning	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1-5
Vegetable, "root"	Sweet Potatoes	Low	Min	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6-14
Vegetable, "root"	Sweet Potatoes	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1-5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned IC	Comments / Reference	ARF Survey
Vegetable, "root"	Potatoes	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Vegetable, "root"	Sweet Potatoes	Low	Min	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, "root"	Turnips	Low	Full	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Turnips	Low	Full	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	25+
Vegetable, "root"	Turnips	Low	Full	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6--14
Vegetable, "root"	Turnips	Low	Full	Harvest, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, "root"	Turnips	Low	Full	Pruning, Hand	Need more details	Not yet assigned	Not yet assigned	1--5
Vegetable, "root"	Turnips	Low	Full	Thinning	Need more details	Not yet assigned	Not yet assigned	1--5
Vegetable, "root"	Turnips	Low	Min	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Turnips	Low	Min	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	6--14
Vegetable, "root"	Turnips	Low	Min	Thinning	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Turnips	Low	Min	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, "root"	Turnips	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, "root"	Turnips	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vegetable, cucurbit	Cantaloupe	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Cantaloupe	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Cantaloupe	Low	Full	Weeding, Hand	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Cantaloupe	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Cantaloupe	Low	Full	Pruning, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Cantaloupe	Low	Full	Thinning	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Cantaloupe	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, cucurbit	Cantaloupe	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, cucurbit	Cantaloupe	Low	Min	Irrigation	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Cantaloupe	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, cucurbit	Cantaloupe	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Cantaloupe	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Cantaloupe	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vegetable, cucurbit	Cucumbers	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Cucumbers	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Cucumbers	Low	Full	Weeding, Hand	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Cucumbers	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Cucumbers	Low	Full	Pruning, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Cucumbers	Low	Full	Thinning	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Cucumbers	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, cucurbit	Cucumbers	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	6--14
Vegetable, cucurbit	Cucumbers	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, cucurbit	Cucumbers	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Vegetable, cucurbit	Cucumbers	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Cucumbers	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vegetable, cucurbit	Gourds					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vegetable, cucurbit	Pumpkin					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vegetable, cucurbit	Squash, Summer	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Squash, Summer	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Squash, Summer	Low	Full	Weeding, Hand	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Squash, Summer	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Squash, Summer	Low	Full	Leaf Pulling	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Squash, Summer	Low	Full	Pruning, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Squash, Summer	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, cucurbit	Squash, Summer	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, cucurbit	Squash, Summer	Low	Min	Irrigation	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Squash, Summer	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, cucurbit	Squash, Summer	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, cucurbit	Squash, Summer	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, cucurbit	Squash, Summer	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, cucurbit	Squash, Summer	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Vegetable, cucurbit	Squash, Winter	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Squash, Winter	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Squash, Winter	Low	Full	Weeding, Hand	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Squash, Winter	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Squash, Winter	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, cucurbit	Squash, Winter	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Squash, Winter	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14



Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Vegetable, cucurbit	Winter Squash, Winter	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Squash, Winter	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vegetable, cucurbit	Watermelon	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Watermelon	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Watermelon	Low	Full	Weeding, Hand	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, cucurbit	Watermelon	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Watermelon	Low	Full	Pruning, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Watermelon	Low	Full	Thinning	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Watermelon	Low	Full	Turning	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, cucurbit	Watermelon	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, cucurbit	Watermelon	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, cucurbit	Watermelon	Low	Min	Pruning, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, cucurbit	Watermelon	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, cucurbit	Watermelon	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, cucurbit	Watermelon	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, cucurbit	Watermelon	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, cucurbit	Watermelon	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Vegetable, cucurbit	Zucchini	High	Full	Harvest, Hand	High	1000	Crop added -- does not occur in ARTF Scoping Survey	25+
Vegetable, fruiting	Eggplant	Low	Full	Harvest, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	25+
Vegetable, fruiting	Eggplant	Low	Full	Pruning, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	6--14
Vegetable, fruiting	Eggplant	High	Full	Staking	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Eggplant	Low	Full	Staking	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Eggplant	Low	Full	Tying	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Eggplant	High	Full	Irrigation	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	1--5
Vegetable, fruiting	Eggplant	High	Full	Scouting	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	15--24
Vegetable, fruiting	Eggplant	Low	Full	Scouting	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	6--14
Vegetable, fruiting	Eggplant	High	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Eggplant	Low	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, fruiting	Eggplant	Low	Min	Pruning, Hand	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	1--5
Vegetable, fruiting	Eggplant	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, fruiting	Eggplant	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Eggplant	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Eggplant	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Eggplant	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Vegetable, fruiting	Eggplant	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	15--24
Vegetable, fruiting	Okra					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vegetable, fruiting	Peppers, Bell	Low	Full	Harvest, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	25+
Vegetable, fruiting	Peppers, Bell	Low	Full	Staking	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Peppers, Bell	Low	Full	Tying	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Peppers, Bell	Low	Full	Irrigation	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	6--14
Vegetable, fruiting	Peppers, Bell	Low	Full	Scouting	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	25+
Vegetable, fruiting	Peppers, Bell	Low	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, fruiting	Peppers, Bell	Low	Min	Irrigation	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Peppers, Bell	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, fruiting	Peppers, Bell	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Peppers, Bell	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Peppers, Bell	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, fruiting	Peppers, Bell	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Vegetable, fruiting	Peppers, Chili	Low	Full	Harvest, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	25+
Vegetable, fruiting	Peppers, Chili	Low	Full	Pruning, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Peppers, Chili	Low	Full	Thinning	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Peppers, Chili	Low	Full	Irrigation	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	6--14
Vegetable, fruiting	Peppers, Chili	Low	Full	Scouting	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	25+
Vegetable, fruiting	Peppers, Chili	Low	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, fruiting	Peppers, Chili	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14
Vegetable, fruiting	Peppers, Chili	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, fruiting	Peppers, Chili	Low	Min	Irrigation	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Peppers, Chili	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, fruiting	Peppers, Chili	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, fruiting	Peppers, Chili	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Peppers, Chili	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, fruiting	Peppers, Chili	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Vegetable, fruiting	Tomatoes, Fresh	High	Full	Harvest, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	25+
Vegetable, fruiting	Tomatoes, Fresh	Low	Full	Harvest, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	15--24
Vegetable, fruiting	Tomatoes, Fresh	High	Full	Pruning, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	6--14
Vegetable, fruiting	Tomatoes, Fresh	Low	Full	Pruning, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARFF Survey
Vegetable, fruiting	Tomatoes, Fresh	High	Full	Staking	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Tomatoes, Fresh	Low	Full	Staking	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Tomatoes, Fresh	High	Full	Thinning	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Tomatoes, Fresh	Low	Full	Thinning	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Tomatoes, Fresh	High	Full	Training	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Tomatoes, Fresh	Low	Full	Training	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Tomatoes, Fresh	High	Full	Tying	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	6--14
Vegetable, fruiting	Tomatoes, Fresh	Low	Full	Tying	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Tomatoes, Fresh	High	Full	Irrigation	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	1--5
Vegetable, fruiting	Tomatoes, Fresh	High	Full	Scouting	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	25+
Vegetable, fruiting	Tomatoes, Fresh	Low	Full	Scouting	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	25+
Vegetable, fruiting	Tomatoes, Fresh	Low	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, fruiting	Tomatoes, Fresh	High	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Tomatoes, Fresh	Low	Min	Pruning, Hand	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	6--14
Vegetable, fruiting	Tomatoes, Fresh	Low	Min	Staking	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	1--5
Vegetable, fruiting	Tomatoes, Fresh	Low	Min	Tying	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	6--14
Vegetable, fruiting	Tomatoes, Fresh	Low	Min	Irrigation	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Tomatoes, Fresh	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, fruiting	Tomatoes, Fresh	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, fruiting	Tomatoes, Fresh	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Vegetable, fruiting	Tomatoes, Proc	Low	Full	Harvest, Hand	High	1000	Central value for MRID 409665 -- hand harvest cherry tomatoes (range 364 to 1908)	1--5
Vegetable, fruiting	Tomatoes, Proc	Low	Full	Irrigation	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	6--14
Vegetable, fruiting	Tomatoes, Proc	Low	Full	Scouting	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	25+

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARFP Survey
	Proc							
Vegetable, fruiting	Tomatoes, Proc	Low	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, fruiting	Tomatoes, Proc	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, fruiting	Tomatoes, Proc	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	15--24
Vegetable, fruiting	Tomatoes, Proc	Low	Min	Pruning, Hand	Medium	700	Central value from MRID 429745 -- scouting tomatoes (range to be determined)	1--5
Vegetable, fruiting	Tomatoes, Proc	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, fruiting	Tomatoes, Proc	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Tomatoes, Proc	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, fruiting	Tomatoes, Proc	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Vegetable, head and stem Brassica	Broccoli	Low	Full	Scouting	Medium	4000	Central value from ARF011 -- scouting cauliflower (range 1672 to 8147)	25+
Vegetable, head and stem Brassica	Broccoli	Low	Full	Harvest, Hand	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	25+
Vegetable, head and stem Brassica	Broccoli	Low	Full	Irrigation	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	15--24
Vegetable, head and stem Brassica	Broccoli	Low	Full	Pruning, Hand	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	1--5
Vegetable, head and stem Brassica	Broccoli	Low	Full	Weeding, Hand	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	15--24
Vegetable, head and stem Brassica	Broccoli	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, head and stem Brassica	Broccoli	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, head and stem Brassica	Broccoli	Low	Min	Scouting	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	6--14
Vegetable, head and stem Brassica	Broccoli	Low	Min	Thinning	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Broccoli	Low	Min	Weeding, Hand	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Broccoli	Low	Min	Irrigation	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Broccoli	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	15--24
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Full	Scouting	Medium	4000	Central value from ARF011 -- scouting cauliflower (range 1672 to 8147)	6--14
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Full	Harvest, Hand	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	6--14

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARF Survey
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Full	Irrigation	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	6--14
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Full	Topping	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	1--5
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Full	Weeding, Hand	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Min	Scouting	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Min	Thinning	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Min	Weeding, Hand	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, head and stem Brassica	Brussel Sprouts	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Vegetable, head and stem Brassica	Cabbage	Low	Full	Scouting	Medium	4000	Central value from ARF011 -- scouting cauliflower (range 1672 to 8147)	25+
Vegetable, head and stem Brassica	Cabbage	Low	Full	Harvest, Hand	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	25+
Vegetable, head and stem Brassica	Cabbage	Low	Full	Irrigation	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	15--24
Vegetable, head and stem Brassica	Cabbage	Low	Full	Pruning, Hand	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	1--5
Vegetable, head and stem Brassica	Cabbage	Low	Full	Thinning	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	1--5
Vegetable, head and stem Brassica	Cabbage	Low	Full	Weeding, Hand	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	25+
Vegetable, head and stem Brassica	Cabbage	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, head and stem Brassica	Cabbage	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, head and stem Brassica	Cabbage	Low	Min	Pruning, Hand	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Cabbage	Low	Min	Scouting	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	15--24
Vegetable, head and stem Brassica	Cabbage	Low	Min	Thinning	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	6--14
Vegetable, head and stem Brassica	Cabbage	Low	Min	Weeding, Hand	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	6--14
Vegetable, head and stem Brassica	Cabbage	Low	Min	Irrigation	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Cabbage	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+



Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Brassica								
Vegetable, head and stem Brassica	Cauliflower	Low	Full	Scouting	Medium	4000	Central value from ARF011 -- scouting cauliflower (range 1672 to 8147)	15--24
Vegetable, head and stem Brassica	Cauliflower	Low	Full	Harvest, Hand	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	15--24
Vegetable, head and stem Brassica	Cauliflower	Low	Full	Irrigation	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	6--14
Vegetable, head and stem Brassica	Cauliflower	Low	Full	Tying	High	5000	Central value from ARF012 -- hand harvesting cauliflower (range 2862 to 7584)	1--5
Vegetable, head and stem Brassica	Cauliflower	Low	Full	Weeding, Hand	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Cauliflower	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, head and stem Brassica	Cauliflower	Low	Min	Scouting	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Cauliflower	Low	Min	Irrigation	Low	2000	Low end value from ARF011 -- scouting cauliflower (range 1672 to 8147)	1--5
Vegetable, head and stem Brassica	Cauliflower	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Vegetable, leafy	Bok Choy					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vegetable, leafy	Celery	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Celery	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, leafy	Celery	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, leafy	Celery	Low	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Celery	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, leafy	Celery	Low	Min	Irrigation	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Celery	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Celery	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Celery	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, leafy	Celery	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Vegetable, leafy	Chinese Cabbage (nappa)					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vegetable, leafy	Collards	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Collards	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, leafy	Collards	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, leafy	Collards	Low	Full	Pruning, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Collards	Low	Full	Thinning	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Collards	Low	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Collards	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, leafy	Collards	Low	Min	Irrigation	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Collards	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Collards	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Collards	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Vegetable, leafy	Greens, Leafy	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5





Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Vegetable, leafy	Lettuce/Romaine	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, leafy	Lettuce/Romaine	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
Vegetable, leafy	Mustard Greens					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vegetable, leafy	Parsley	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, leafy	Parsley	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, leafy	Parsley	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	15--24
Vegetable, leafy	Parsley	Low	Full	Thinning	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Parsley	Low	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, leafy	Parsley	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, leafy	Parsley	Low	Min	Irrigation	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Parsley	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Parsley	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Parsley	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Parsley	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vegetable, leafy	Spinach	Low	Full	Irrigation	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Spinach	Low	Full	Scouting	Medium	1500	Central value from ARF021 -- scouting dry peas (range 486 to 2760)	25+
Vegetable, leafy	Spinach	Low	Full	Harvest, Hand	High	2500	High end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, leafy	Spinach	Low	Full	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, leafy	Spinach	Low	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, leafy	Spinach	Low	Full	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, leafy	Spinach	Low	Min	Irrigation	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Spinach	Low	Min	Scouting	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	6--14
Vegetable, leafy	Spinach	Low	Min	Thinning	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Spinach	Low	Min	Weeding, Hand	Low	500	Low end value from ARF021 -- scouting dry peas (range 486 to 2760)	1--5
Vegetable, leafy	Spinach	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vegetable, leafy	Swiss Chard					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vegetable, leafy	Watercress					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vegetable, stem / stalk	Artichoke	High	Full	Harvest, Hand	High	1000	Central value from MRID 409665 -- hand harvesting tomatoes (range 364 to 1908)	6--14
Vegetable, stem / stalk	Artichoke	Low	Full	Pruning, Hand	High	1000	Central value from MRID 409665 -- hand harvesting tomatoes (range 364 to 1908)	1--5
Vegetable, stem / stalk	Artichoke	High	Full	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, stem / stalk	Artichoke	Low	Full	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, stem / stalk	Artichoke	High	Full	Irrigation	Medium	500	Low end value from MRID 409665 -- hand harvesting tomatoes (range 364 to 1908)	1--5
Vegetable, stem / stalk	Artichoke	High	Full	Scouting	Medium	500	Low end value from MRID 409665 -- hand harvesting tomatoes (range 364 to 1908)	1--5
Vegetable, stem / stalk	Artichoke	Low	Min	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, stem / stalk	Artichoke	Low	Min	Scouting	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTF Survey
Vegetable, stem / stalk	Artichoke	Low	Min	Thinning	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, stem / stalk	Artichoke	Low	Min	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, stem / stalk	Artichoke	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vegetable, stem / stalk	Asparagus	High	Full	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, stem / stalk	Asparagus	High	Full	Irrigation	Medium	500	Low end value from MRID 409665 -- hand harvesting tomatoes (range 364 to 1908)	6--14
Vegetable, stem / stalk	Asparagus	High	Full	Scouting	Medium	500	Low end value from MRID 409665 -- hand harvesting tomatoes (range 364 to 1908)	25+
Vegetable, stem / stalk	Asparagus	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, stem / stalk	Asparagus	Low	Min	Irrigation	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, stem / stalk	Asparagus	Low	Min	Weeding, Hand	Low	300	High end value from MRID 428513 -- scouting cotton (range 140 to 290)	1--5
Vegetable, stem / stalk	Asparagus	Low	Min	Fertilizing	None	0	No contact with treated foliage.	1--5
Vegetable, stem / stalk	Asparagus	Low	Min	Scouting	None	0	No contact with treated foliage.	6--14
Vegetable, stem / stalk	Asparagus	Low	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vegetable, stem / stalk	Asparagus	Low	Min	Harvest, Hand	Out of scope	Out of scope	See policy for guidance.	25+
Vegetable, stem / stalk	Asparagus	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vegetable, stem / stalk	Asparagus	Low	Min	Harvest, Mech	Special concern	Special concern	Significant worker exposure possible from activity. See policy for guidance.	1--5
Vegetable, stem / stalk	Pineapple					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vine / trellis	Beans, pole					As for TC Group	Crop added -- does not occur in ARTF Scoping Survey	
Vine / trellis	Blackberries	High	Full	Scouting	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Vine / trellis	Blackberries	High	Full	Harvest, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Blackberries	High	Full	Pruning, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Blackberries	High	Full	Training	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Blackberries	High	Full	Tying	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Blackberries	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Blackberries	High	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Blackberries	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	6--14
Vine / trellis	Blackberries	High	Min	Training	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Blackberries	Low	Min	Training	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Blackberries	Low	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Blackberries	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vine / trellis	Blueberries, Highbush	High	Full	Scouting	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	25+
Vine / trellis	Blueberries, Highbush	High	Full	Harvest, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	25+
Vine / trellis	Blueberries, Highbush	High	Full	Pruning, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	15--24
Vine / trellis	Blueberries, Highbush	High	Full	Thinning	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARF Survey
	Highbush						determined)	
Vine / trellis	Blueberries, Highbush	High	Full	Hedging	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Blueberries, Highbush	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Vine / trellis	Blueberries, Highbush	High	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Vine / trellis	Blueberries, Highbush	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	15--24
Vine / trellis	Blueberries, Highbush	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14
Vine / trellis	Blueberries, Highbush	High	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Blueberries, Highbush	High	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vine / trellis	Blueberries, Highbush	High	Min	Thinning	Need more details	Not yet assigned	Not yet assigned	1--5
Vine / trellis	Blueberries, Highbush	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	15--24
Vine / trellis	Grapes, Juice	High	Full	Scouting	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	25+
Vine / trellis	Grapes, Juice	Low	Full	Scouting	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Juice	High	Full	Training	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Grapes, Juice	High	Full	Tying	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Grapes, Juice	High	Full	Harvest, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	15--24
Vine / trellis	Grapes, Juice	High	Full	Pruning, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	15--24
Vine / trellis	Grapes, Juice	High	Full	Thinning	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	6--14
Vine / trellis	Grapes, Juice	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Juice	High	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Juice	Low	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Juice	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	15--24
Vine / trellis	Grapes, Juice	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14
Vine / trellis	Grapes, Juice	High	Min	Training	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Juice	High	Min	Tying	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Grapes, Juice	Low	Min	Tying	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Grapes, Juice	Low	Min	Tying	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Grapes, Juice	High	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Vine / trellis	Grapes, Juice	Low	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Vine / trellis	Grapes, Juice	Low	Min	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5

Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARTE Survey
Vine / trellis	Grapes, Juice	High	Min	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Juice	High	Min	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vine / trellis	Grapes, Juice	Low	Min	Weeding, Mech	None	0	No contact with treated foliage	1--5
Vine / trellis	Grapes, Juice	Low	Min	Propagating	Need more details	Not yet assigned	Not yet assigned	1--5
Vine / trellis	Grapes, Juice	Low	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	6--14
Vine / trellis	Grapes, Juice	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	25+
Vine / trellis	Grapes, Juice	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	25+
Vine / trellis	Grapes, Tbl/Rsn	Full	Full	Girdling	Very high	10000	Activity added -- does not occur in ARTE Scoping Survey. Central value from MRID 409753 -- cane turning in table grapes (range to be determined)	15--24
Vine / trellis	Grapes, Tbl/Rsn	High	Full	Scouting	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	15--24
Vine / trellis	Grapes, Tbl/Rsn	High	Full	Turning (Cane turning)	Very high	10000	Central value from MRID 409753 -- cane turning in table grapes (range to be determined)	1--5
Vine / trellis	Grapes, Tbl/Rsn	High	Full	Tying (Cane turning)	Very high	10000	Central value from MRID 409753 -- cane turning in table grapes (range to be determined)	1--5
Vine / trellis	Grapes, Tbl/Rsn	High	Full	Harvest, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	25+
Vine / trellis	Grapes, Tbl/Rsn	High	Full	Pruning, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	25+
Vine / trellis	Grapes, Tbl/Rsn	High	Full	Thinning	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Grapes, Tbl/Rsn	High	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Tbl/Rsn	Low	Min	Tying (Cane turning)	Very high	10000	Central value from MRID 409753 -- cane turning in table grapes (range to be determined)	1--5
Vine / trellis	Grapes, Tbl/Rsn	High	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Tbl/Rsn	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5
Vine / trellis	Grapes, Tbl/Rsn	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vine / trellis	Grapes, Wine	High	Full	Scouting	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	25+
Vine / trellis	Grapes, Wine	Low	Full	Scouting	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Wine	High	Full	Training	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Grapes, Wine	Low	Full	Training	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Grapes, Wine	High	Full	Tying	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	6--14
Vine / trellis	Grapes, Wine	High	Full	Harvest, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	25+
Vine / trellis	Grapes, Wine	High	Full	Leaf Pulling	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5

Transfer Coefficient Group	Grop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARFP Survey
Vine / trellis	Grapes, Wine	High	Full	Pruning, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	25+
Vine / trellis	Grapes, Wine	Low	Full	Pruning, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Grapes, Wine	High	Full	Thinning	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	6--14
Vine / trellis	Grapes, Wine	High	Full	Hedging	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Wine	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Wine	Low	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Wine	High	Full	Harvest, Mech	None	0	No contact with treated foliage.	1--5
Vine / trellis	Grapes, Wine	High	Full	Burndown	Need more details	Not yet assigned	Not yet assigned	1--5
Vine / trellis	Grapes, Wine	Low	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Wine	High	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Grapes, Wine	Low	Min	Propagating	Need more details	Not yet assigned	Not yet assigned	1--5
Vine / trellis	Grapes, Wine	Low	Min	Trellis Repair	Need more details	Not yet assigned	Not yet assigned	1--5
Vine / trellis	Grapes, Wine	Low	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	6--14
Vine / trellis	Grapes, Wine	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	6--14
Vine / trellis	Grapes, Wine	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	15--24
Vine / trellis	Kiwi Fruit	High	Full	Scouting	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Vine / trellis	Kiwi Fruit	High	Full	Harvest, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	6--14
Vine / trellis	Kiwi Fruit	High	Full	Pruning, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Kiwi Fruit	High	Full	Thinning	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	6--14
Vine / trellis	Kiwi Fruit	High	Full	Irrigation	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Kiwi Fruit	High	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Kiwi Fruit	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	1--5
Vine / trellis	Kiwi Fruit	High	Min	Tying	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Kiwi Fruit	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	6--14
Vine / trellis	Kiwi Fruit	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	1--5
Vine / trellis	Raspberries	High	Full	Scouting	Medium	1000	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	25+
Vine / trellis	Raspberries	High	Full	Harvest, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	25+
Vine / trellis	Raspberries	High	Full	Pruning, Hand	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	15--24
Vine / trellis	Raspberries	High	Full	Thinning	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	6--14
Vine / trellis	Raspberries	High	Full	Training	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5
Vine / trellis	Raspberries	High	Full	Tying	High	5000	Central value from MRID 409856 -- hand harvesting raisin grapes (range to be determined)	1--5



Transfer Coefficient Group	Crop	Relative Crop Height	Foliage Development	Activity	Exposure Potential	Assigned TC	Comments / Reference	ARFP Survey
Vine / trellis	Raspberries	High	Full	Weeding, Hand	Low	500	determined)	
Vine / trellis	Raspberries	Low	Full	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Vine / trellis	Raspberries	High	Full	Harvest, Mech	None	0	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Raspberries	High	Full	Weeding, Mech	None	0	No contact with treated foliage.	6--14
Vine / trellis	Raspberries	High	Full	Topping	Need more details	Not yet assigned	No contact with treated foliage.	1--5
Vine / trellis	Raspberries	High	Min	Tying	Medium	1000	Not yet assigned	1--5
Vine / trellis	Raspberries	Low	Min	Scouting	Low	500	Central value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Raspberries	High	Min	Scouting	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	6--14
Vine / trellis	Raspberries	Low	Min	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Raspberries	High	Min	Weeding, Hand	Low	500	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Raspberries	Low	Min	Weeding, Mech	None	0	Low end value from ARF023 -- scouting table grapes (range 197 to 2302)	1--5
Vine / trellis	Raspberries	High	Min	Thinning	Need more details	Not yet assigned	No contact with treated foliage.	1--5
Vine / trellis	Raspberries	Low	Min	Thinning	Need more details	Not yet assigned	Not yet assigned	1--5
Vine / trellis	Raspberries	Low	Min	Pruning, Hand	Out of scope	Out of scope	Not yet assigned	1--5
Vine / trellis	Raspberries	High	Min	Pruning, Hand	Out of scope	Out of scope	See policy for guidance.	1--5
Vine / trellis	Raspberries	Low	Min	Transplanting	Out of scope	Out of scope	See policy for guidance.	6--14
							See policy for guidance.	25+